

Founded as
The Official News Organ
of Technology



A Record of
Continuous News Service
for 35 Years

Vol. 37. No. 72

CAMBRIDGE, MASS., WEDNESDAY, DEC. 26, 1917

Price Three Cents

XMAS EVE RECEPTION AT PRESIDENT'S HOUSE

Dr. and Mrs. MacLaurin Entertain Students Who Were Unable to go Home During the Christmas Holidays

MORE THAN 100 ATTEND

A reception was given by President and Mrs. MacLaurin Christmas eve to all the students of the Institute who were unable to be at home for the Christmas holidays, in order that they might come together under the cheery influences of Christmas. Over one hundred students availed themselves of this opportunity to meet and to enter the homelike Christmas spirit to which they have hitherto been accustomed.

In keeping with the occasion an old English Christmas carol of the mediaeval period, "The play of the shepherds and the sheep stealers," was played in pantomime. The carol, bordering upon both an interlude and a miracle play, and containing a bit of comedy, originally contained many dialogues but it was found necessary to change it, because of the limited amount of time in which the cast had to rehearse. However the plot of the story was retained and the comedy occasioned by the knavery of Mak and his wife Gill evinced much mirth from the audience.

The work of Mr. Marks of the Institute English Department, as the monk who enunciates the play, was especially good, as was also that of the three shepherds. Earl Collins accompanied on the piano. Following is the cast of characters:

Mak D. W. Curry
Gill, Mak's wife Miss Young
Madonna Mrs. Warren
Shepherds E. S. Whitman
M. M. Whitaker
P. W. Carr

Monk Mr. Marks
Violinist W. Hedlund
Censer Bearer Rupert MacLaurin
Angels E. Etherington, G. Y. Cannon

After the play the guests adjourned to the Christmas tree, where each was presented with a gift, the majority of which proved to be dolls, puzzles, jumping-jacks, or anything which would add to the cheer of the occasion. These gifts fully served the purpose for which they were intended in provoking merriment and laughter. Refreshments were then served.

A musical program, consisting of Tech songs and instrumental numbers by W. Hedlund and E. Collins on the piano, concluded the entertainment. Out of consideration for the guests all music which would be likely to recall anything of a reminiscent nature was omitted from the program. Mrs. MacLaurin received.

ELECTRICALS WILL HOLD BANQUET AND MIDYEAR TRIP

The student branch at Technology of the American Institute of Electrical Engineers will take a trip during mid-years to Pittsfield, Schenectady and New York city. The probable cost of the trip, not including meals, will be about \$20. All those who are interested may find out the exact particulars by calling at the society office, room 10-275.

The annual banquet of the society will be held during the second week of January, and will be addressed by President M. C. Brush of the Boston Elevated Company and other prominent speakers. The expense will be divided between the treasury and the members.

PROF. ALLEN TO VISIT WEST

The Alumni Association has arranged to send Professor C. S. Allen as field representative on a trip to various Technology Clubs of the Middle West. Plans have already been made for him to speak at Chicago on Saturday, January 19th; St. Louis, January 26th; Cincinnati, February 2nd; Pittsburgh, February 9th. Dates for other clubs will be announced later.

COSMOPOLITAN CLUB TO MEET WITH HARVARD AND RADCLIFFE

Despite the fact that present conditions are not altogether favorable for the best success of student activities at the Institute, the Cosmopolitan Club's outlook for a "big" season is very bright.

As President MacLaurin had stated at a meeting of the club, the Cosmopolitan Club's object should be to foster friendship among nationalities, and to learn to know others as human beings. The club aims to do this through its gatherings or "nights." As yet, only one such gathering was held, the night for new students, but several other meetings were also held, at which business matters were cleared up and plans for the year were made.

It is the intention of the club to hold several meetings with prominent men as speakers, and to have several "national nights." These are under the direction of the national groups, and afford very interesting and instructive entertainments. It is the duty of the group providing the program to take charge of the entire entertainment, and since each group tries to produce something better than the others, the results are always worth while.

The first national night, the Russian night, will be held some time during the early part of next term. The Chinese night and the Latin-American night have also been arranged for, and the year's work will probably be brought to a close with the International night.

This term will probably be concluded with a joint night held with Radcliffe and Harvard.

According to the Cosmopolitan Club's Constitution, all foreign students at the Institute are eligible for membership. The American membership is confined to not more than a third of the entire membership.

The meetings of the club are always open to those who are interested, and visitors are always welcome.

SWIMMING TEAM

Prospects For a Successful Season Are Bright

The swimming team, undefeated for the past two years, is rapidly rounding into shape and the prospects of a successful season are good.

The candidates for the team have been working hard all fall and the season will start after the Christmas vacation. The first meet is scheduled for January 12 with Brown at Providence.

The team this year is composed mostly of new material; however, at the rate the men are making progress it will be able to hold its own with a team of veterans by the middle of the season. The star sprinter of last year's team, W. C. Foster, '18, has been lost. C. Scranton, '19, has also left, making a big hole in the relay team. Ex-Captain Gray, '17, is another of the missing.

Among the members of the team last year who have returned, Max Undersee, '18, is prominent. He has had two years experience on the team and will be one of the heaviest point-winners. Wales, '19, is practically sure of capturing the plunge in any meet. MacAllister, '18 is a diver of first quality and is well supported by two new men, Shar '21 and Wallace '18. Last year Bolan '19 surrendered only to ex-captain Day in the twenty-two yard dash and this year he should be a winner.

With these as a nucleus the team should have a successful season even if there were no men of especial promise among the new material. Green '21, a former varsity man at Leland Stanford, is pushing Bolan hard in the twenty, while Young '21, Wilson '21, Starkweather '21 and Colton '21, are all showing strength in the shorter dashes.

Owing to the lack of available funds P. D. Scheeline has been doing all the coaching.

The schedule is as follows:—Jan. 12, Brown at Providence; Jan. 19, U. of Penn. at Boston Y. M. C. A.; Feb. 2, Annapolis at Annapolis; Feb. 5, Yale at New Haven; Feb. 16, Amherst at Boston Y. M. C. A.; Feb. 23, Wesleyan at Wesleyan.

STENOGRAPHERS WANTED FOR WAR SERVICE

Stenographers and typists, both men and women, are to be given a chance for national service in the field in which they are best trained, and they are actually in great demand, according to latest advices here. It is authoritatively said that in the Army Ordnance Department alone several hundred stenographers and typists are going to be employed before the first of the year in positions paying at the outset as high as \$1100 per annum. The gun division of the Ordnance Department is vigorously inaugurating an extensive campaign throughout the South and East, not only for stenographers and typists, but for schedule, index and catalog clerks and mechanical draftsmen, all for service at Washington. All appointments are to be made under the newly modified civil service tests. The Ordnance Department suggests that everyone who is qualified for any of these positions, who wishes to know Washington as the national capitol in "war time" and who sincerely desires to assist in the emergency, communicate with the Gun Division, Ordnance Department, Room 514, Hoe Building, 1330 F street, N. W., Washington, D. C.

VARSITY WRESTLING TEAM HAS EXCELLENT MATERIAL

Elimination bouts being held among Freshman Squad

The wrestling squad this year has a great wealth of material to draw from, because of the large number of freshmen who have substituted this sport for gymnasium work, besides having the majority of last year's men back. Up to the present time most attention has been paid to the development of the freshman squad, and many promising candidates have been discovered. Some of these have had experience in wrestling before coming to the Institute. The members of the Varsity team have been assisting Coach Gracey in training the freshmen, because of the unusually large number of candidates, and have devoted most of their time to this work.

Elimination bouts are now being held to determine the freshman championships in each class. The winners of these matches will comprise the freshman team and will have the privilege of challenging the members of the Varsity team in their respective weights. If they succeed in winning, then they will make the team, but if they lose they will be made first substitutes. Later on in the season the freshman and Sophomore teams will clash for honors and the winners will be awarded their numerals.

At present there are three vacancies on the Varsity team, so the three freshman champions in these weights will become members of the team automatically. However, any man who thinks that he can defeat a member of the team can challenge him for a bout. The personnel of the Varsity team now is as follows: 116-pound class, Smalley; 125-pound class, McFarland; 135-pound class, to be chosen from the freshmen; 145-pound class, Capt. Giles and Kiley; 158-pound class, Wirt; 175-pound class, to be chosen from the freshmen; heavyweight class, to be selected from the freshmen.

Manager McFarland has several meets under consideration, and it is probable that some will be arranged immediately after vacation.

CONGRESS PASSES SERVICE COMPENSATION BILLS

Appropriates \$141,000,000 for Army and Navy Compensations

In a movement to amend "An Act to authorize the establishment of a Bureau of War Risk Insurance in the Treasury Department," Congress has appropriated \$141,000,000 to be known as the military and naval family allowance appropriation, \$12,150,000 to be known as the military and naval compensation appropriation, and \$25,000,000 to be known as the military and naval insurance appropriation.

PRESIDENT MACLAURIN EXPLAINS NEW DRAFT RULES TO STUDENTS

Modifications Made by Chief of Engineers as They Affect Technical Students Outlined

LETTER FROM WAR DEPARTMENT READ

PRESIDENT MACLAURIN addressed the students who attended the third of the series of Convocations, held in Smith Hall, room 10-250, December 21, at 4:00 o'clock. These meetings have been for the purpose of telling the students subject to the draft about the new system and advising the men concerning the course of action they should follow. At last Friday's conference the President read a recent communication from the War Department and the modifications made in the selective service regulations. The President also told how students at the Institute should follow these requirements. The communication from the office of the Chief of Engineers in Washington, is as follows:

"In order to enable the engineering students who are making the best records at colleges to continue and complete their courses, the War Department has had modifications made in the Selective Service Regulations which will, under certain conditions, permit an engineering student to remain at college and complete his engineering course.

To do this he is to enlist in the Engineer Reserve Corps. This enlistment will bring him into the military service and exempt him, for the time being, from the action of the draft. He will be placed on what is known as the 'inactive list' and will be allowed to complete his college course.

The steps necessary to accomplish this are fully covered in the regulations issued on the subject.

"The application from the student himself should be in his own handwriting, in the form stated in the Regulations, but the certificate from the faculty as to scholarship should be typewritten. They should be sent together, inclosed in the same envelope, addressed to the Chief of Engineers, War Department, Washington, D. C."

1. The Selective Service Regulations have recently been modified by inserting the following:

Under such regulations as the Chief of Engineers may prescribe, a proportion of the students, as named by the school faculty, pursuing an engineering course in one of the approved technical engineering schools listed in the War Department, may enlist in the Enlisted Reserve Corps of the Engineer Department and thereafter, upon presentation by the registrant to his local Board of a certificate of enlistment, such certificate shall be filed with the Questionnaire and the registrant shall be placed in Class V on the ground that he is in the military service of the United States.

2. In accordance with the authority given by this modification of Selective Service Regulation, the following regulations are promulgated governing the enlistment by engineer students in the Engineer Enlisted Reserve Corps.

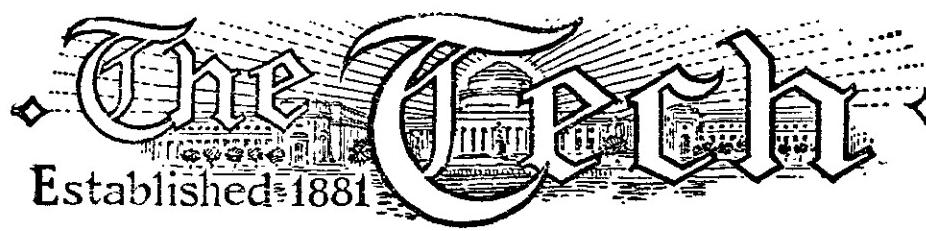
3. In order to be eligible for enlistment in the Engineer branch of the Enlisted Reserve Corps under the above-quoted amendment to Selective Service Regulations, a candidate must fulfill the following conditions.

(a) He must be a citizen of the United States.

(b) He must be a student in one of the schools, the names of which are borne upon the list of technical schools approved by the Secretary of War for the purpose of carrying out Section 5 of the River and Harbor Act approved February 27, 1911, relating to appointments from civil life to the grade of second lieutenant in the Corps of Engineers.

(c) He must be regularly enrolled and must be pursuing a course required for the degree of Chemical Engineer, Civil Engineer, Electrical Engineer, Mechanical Engineer, Mining Engineer, or some other equivalent engineering or technical degree.

(d) He must have made since his (Continued on page 4)



Established 1881

Entered as second-class matter, September 16, 1911, at the Postoffice at Boston, Mass., under the act of Congress of March 3, 1879.

Published twice a week during the college year by students of the Massachusetts Institute of Technology.

MANAGING BOARD

Paul C. Leonard '17.....Chairman of the Board
A. J. Giuranovich, Jr., '18.....Editor-in-Chief
W. Raymond McKenney '19.....Managing Editor
Lawrence Winant '20.....Advertising Manager
Arthur E. Farrington '19.....Circulation Manager
John W. Meader '19.....Treasurer

Subscription \$1.50 for 53 issues, in advance. Single copies 3 cents.
Subscriptions within the Boston Postal District or outside the United States must be accompanied by postage at the rate of one cent a copy. Issues mailed to all other points without extra charge.

News Offices, Charles River Road, Cambridge, Mass.; 152 Purchase Street, Boston, Mass. News Phones, Cambridge 2600, Main 3810. Business Offices, Charles River Road. Business Phone, Cambridge 2600.

Although communications may be published unsigned if so requested, the name of the writer must in every case be submitted to the editor. The Tech assumes no responsibility, however, for the facts as stated nor for the opinions expressed.

The Editor-in-Chief is always responsible for the opinions expressed in the editorial columns, and the Managing Editor for the matter which appears in the news columns.

IN CHARGE THIS ISSUE

H. M. Noelke '20

Assistants

C. A. Clarke '21
Z. Giddens '21
H. Kurth '21
R. Lawthers '21

WEDNESDAY, DECEMBER 26, 1917

CHRISTMAS AND THE WAR.

CHRISTMAS has come and gone, but the spirit of this Yuletide will remain with us for some time to come. This is the season for rejoicing and undoubtedly there was rejoicing. But who can be but heavy-hearted in view of the present world crisis? We are heavy-hearted, but we can and must be optimistic. War is terrible (this seems a mere platitude, but it expresses the fact), but it cannot last forever. We have gone into the war with a will, and the effects of the American spirit and preparation will sooner or later be felt by Germany, even though our accomplishments to date have been nothing remarkable.

Germany is undoubtedly strong, and her conquering will be no child's play. However, Germany is not invincible, the Kaiser to the contrary notwithstanding. Only recently a report came that the Krupp plant at Essen was on fire. If this is true Germany will soon be heavily handicapped in her war program. The effect of this conflagration will be visible on the front in the near future. This is one horror in which the world (the Hun contingent excepted) may rejoice, for it can only mean a blow to Boche power and a consequent hastening of the end of the war.

War has brought to us pain and sacrifice, but will we not emerge from this war a better world? Grief is rife among us, but the Christmas season has shown that our optimism will not down.

The modifications to the draft regulations as they affected Technology students were explained in full at the Convocation last week. We ought now to have no doubts whatsoever. All registrants at the Institute who are eligible should enlist in the Engineer Reserve to the man, and tackle the work here with even increased vigor. There is also the excellent opportunity of gaining purely military knowledge from the military units here. On the whole, we are peculiarly able to gain much knowledge which will be of inestimable value to us when we are called for service, as we undoubtedly will be.

The Boston Elevated is cutting down the number of cars on its lines in line with the suggestion of the Fuel Administrator. This is all very well, but it would be better for the company to arrange a schedule which would prevent three cars coming in succession so that the first is always loaded to capacity while the last one is practically empty. Conservation is in order, but systematizing is deplorably lacking.

The Institute has assumed an unwonted aspect of inactivity. Even the government schools are enjoying a recess. Many Seniors however, are hard at work in the drafting rooms and laboratories cleaning up their work.

You have until January 15 to get in your application for enlistment in the Engineer Reserve. Forms may be obtained from the Registrar's office after January 7. Don't wait until the last minute.

Within two weeks the mid-year exams will be with us. Are you prepared?



Over one-fourth of the class of 1917 at the Case School of Applied Science is now in active government service. Of these sixty-five are commissioned officers, one a colonel, and three of them majors. Ten members of the faculty are also in service.

Trinity College has a service flag containing over three hundred stars, representing the men who are in active government work from that college. Of this number about ninety are in France.

A new course of intensive study has been introduced in the Arts School at Tufts College, for men who are liable to the next draft. The course is to comprise practical work in the construction and repair of wireless apparatus, and also special instruction in code and theory. The course will be continued throughout the Christmas vacation.

By vote of the athletic council of Wesleyan, all sports, with the exception of swimming, are to be suspended at that college. The college activities are also to be held up, as there are to be no more dances or other social events. The Wesleyan swimming team is scheduled to meet Technology this season.

In the recent Y. M. C. A. drive, Willamette College, Oregon, more than doubled the amount which it was to raise for that cause. The apportionment for the college was six hundred dollars and the amount obtained in the campaign exceeded thirteen hundred dollars.

The R. O. T. C. at Rhode Island State College has adopted a demerit system to discourage the tardiness and absence which has been prevalent there during the last month. Fifteen demerits are enough to cause the dismissal of a member of the corps.

Dartmouth concluded a record breaking drive for the Red Cross by obtaining ninety-four per cent of the whole college as members. In all, three rounds of the dormitories were made.

Ninety per cent of the class of 1917 at Williams College have enlisted in some branch of the service. Two men have received the "Croix de Guerre" for bravery at the front. About half of the student body had gone into some branch of government work since the spring of last year.

The University of Illinois has at present over two thousand men in National service, about three hundred of whom are at the front. Major-General J. Ruckman, in command of the Southern Department of the American Army, is a graduate of the University.

Due to the presence of Technology students in their vicinity, Wellesley students have appeared in sheepskin coats. The girls seem well pleased with their new attire, which resembles the Technology ba-ba, except in the closeness of fit.

Worcester Polytechnic Institute has adopted a cram course for the senior class, by which the second term is shortened several weeks. Commencement Day will be held in the middle of April, instead of in June.

To aid in the drive throughout the country to save coal, Tufts College will have a Christmas vacation of three weeks. It is thought that the loss of work necessitated by this will not have any appreciable effect on the scholarship of the classes, whereas it will be a good step toward conservation of coal.

TECHNOLOGY QUIET THIS WEEK.
The present week at Technology is perhaps the quietest one for the whole year, in that there is a recess for practically all the educational activities. The students in the regular courses were excused Saturday noon to return Wednesday morning, Jan. 2, 1918. The aviation schools likewise afford their young men a few days respite from the strenuous and intensive work that they are carrying on. Here, however, the school for inspectors of materials, a comparatively small group, some 50 to 60 men, has continued its work, with the exception of Christmas Day. The school for deck officers is continuing without any recess, since it is a short and intensive course for men living in the neighborhood, while in the school for marine engineers the Christmas season comes between schools, one of them just ending while another will begin with the new year. The Lowell School for Industrial Foremen will have the same vacation as the Institute itself.

Collins & Fairbanks Co.

Young Men's Hats, Coats, Caps, Gloves, Aviation Helmets, Hoods, Caps, Leather Coats

383 WASHINGTON STREET BOSTON

RHODE ISLAND TOOL CO.

WILLIAM C. DART '91, President

MANUFACTURERS OF

BOLTS, NUTS, CAP AND SET SCREWS,

SCREW MACHINE PRODUCTS

QUALITY FIRST

PROVIDENCE, R. I.

Iron :: Steel :: Metals

Arthur C. Harvey Co.

374-394 Congress Street BOSTON, MASS.

TELEPHONE, MAIN 7000

| | | |
|-------------|---------------|--------------|
| TOOL STEEL | SHEET IRON | BOILER TUBES |
| PLATE STEEL | CONCRETE RODS | METAL LATH |
| SOLDER | COPPER | ZINC |

We Are Equipped to Cut to Length Anything Carried in Stock

NEW ENGLAND STRUCTURAL CO.

INDUSTRIAL ENGINEERS

and

SPECIALISTS IN STEEL CONSTRUCTION

Complete Contracts for Power Plants, Factories, and all Industrial Enterprises

Works:

Sales and Engineering Office:

EVERETT, MASS.

110 STATE ST., BOSTON, MASS.

Herrick's Theatre TICKET AGENCY

Has the Best Tickets
for Every Show
in Town.

Copley Sq. Tel. BB. 2328

MISS A. I. DARLING

Typewriting--Multigraphing
Wide experience in scientific work of all kinds. Theses, reports, notes, etc. Foreign languages. French a specialty. Dictation taken directly at machine. Accurate and neat work. Reasonable prices.

1388 Massachusetts Avenue
Rooms 3 & 7
HARVARD SQUARE
Telephone Cambridge 894-W

SIMPLEX WIRES AND CABLES

INSULATED WITH RUBBER, PAPER OR CAMBRIC

Send for
THE SIMPLEX MANUAL

SIMPLEX WIRE & CABLE CO.

MANUFACTURERS

201 DEVONSHIRE ST. BOSTON

CHICAGO SAN FRANCISCO

M. I. T.

UNIFORMS and EQUIPMENT

AT

Reasonable Prices



WHY PAY MORE?

when for \$1.00 a month we will clean and press a suit a week, call for and deliver at weekly intervals or when notified.

Try us on a suit and our work will speak for itself. Uniforms pressed within 3 hours.

BON-TON TAILORING

Phone 5074-M B. B. 778 Beacon Street

Nothing will be more appreciated this Christmas by your relatives and friends than a good photograph. Mention TECH and receive special rates.

CHAMPLAIN STUDIOS

161-164 Tremont St.

ARMSTRONG TRANSFER CO.

BAGGAGE, CARRIAGE AND AUTOMOBILE SERVICE TO ALL RAILROAD STATIONS

Purchase your railroad ticket in advance, then let us check your baggage to destination, saving you the trouble of rechecking at station.

Brookline Office—1296 Beacon St. General Office—271 Albany St.
Telephone, Brookline 3020 Telephone, Beach 7400



FOR HIRE
PACKARD TWIN SIXES
Touring Cars, Limousines and Landauettes
by the hour, day, week or month.
CAREFUL COMPETENT CHAUFFEURS

FRANK McCANN
16 CAMERIA ST., BOSTON, MASS.
Telephones, Back Bay 4006-4007

EXAMINATION FOR ENGINEERING CORPS

On account of the large number of vacancies in the Corps of Engineers in the Regular Service, it is proposed to hold an examination, beginning January 21, 1918, to fill some of these vacancies. In order to be eligible to take this examination, a candidate must be an unmarried citizen of the United States between the ages of 21 and 29 years, and must hold a diploma showing graduation in an Engineering course from an approved technical school.

For persons not in the service, the mental examination to be held will be of the same general character as those which have been held semi-annually for the past few years. The subjects on which men were examined in August, 1916, were as follows: Chemistry, Mineralogy, Geology, 3 1-2 hours; History and Constitutional Law, 2 1-2 hours; Languages, 3 hours; Surveying, including Astronomy, 4 hours; Descriptive Geometry and Drafting, 4 1-2 hours; Physics, including Electricity, Magnetism, Heat, Sound, and Light, 3 1-2 hours; Theory and Practice of Engineering Construction, Part 1, 4 1-2 hours; Part 2, 4 1-2 hours; Theoretical and Applied Mechanics, Part 1, 4 1-2 hours; Part 2, 4 1-2 hours.

Candidates who are not in the service are required to prove their moral fitness for commissions by submitting letters of recommendation from persons who have known them.

MAURICE R. SCHARFF WAS MAN ON THE JOB AT CAMP McCLELLAN CANTONMENT

'09 Man Was Called Away From the Secretaryship of the Technology Bureau in Washington to Build Southern Depot

(From the Anniston (Ala.) Evening Star) **T**HOSE who have witnessed the magic-like growth of Camp McClellan and marveled at the dizzying rapidity with which the buildings went up, how the water pipes went in and the big drive went on, have—very few of them—thought; to the preparatory work which was necessary before a post was driven into ground or one plank nailed above another.

TECHNOLOGY ORCHESTRA VISITS CAMP DEVENS

Wednesday afternoon the Technology Orchestra took a trip to Camp Devens at Ayer, where a musical program was presented for the entertainment of the men encamped there. The trip was requested by the Y. M. C. A. on account of the fact that no leave of absence was granted to the men. The program presented consisted chiefly of popular songs, and was heartily enjoyed by all those attending. Before the concert the members of the orchestra had an opportunity to inspect the general lay-out of the camp.

The Tech has a file of Technology men in War Service. Help to keep it up to date.

The engineering feat of Camp McClellan has been a distinct outstanding feature to those who have watched the work from the beginning to the present moment and who realize that without the preliminary labor of the engineer, Camp McClellan would look very much like a Chinese puzzle and not the orderly and well co-ordinated city they now see in driving over the roads the engineers made possible.

And not many are aware of the fact that the man in all the United States who was picked for this big job is the tall, big-boned young expert, Maurice R. Scharff, who has little to say but lets his work speak for him. Just how tall Scharff is, no man knows. They would have to take one of his steel tape lines to be sure to have length enough. Most likely it is somewhere about six feet four or five inches and had he been living in Germany the Kaiser would have put him in the front rank of his giant body guard. But Scharff does not hail from Germany, but was born way down in Mississippi Delta, in the aristocratic little city of Natchez, which was founded long before New Orleans, and that was exactly 198 years ago. Not that age matters with Engineer Scharff, for he is a mere youth as to years but a grizzly headed veteran in point of experience and service.

When the big job at Camp McClellan was decided upon the engineering end of the contract was awarded to the distinguished Pittsburgh engineer, Morris Knowles. He in turn, placed the responsibility on the shoulders of his young principal assistant, Maurice R. Scharff, who, from first to last, has handled the big cantonment work as an independent proposition and incidentally, has added laurels to his reputation and praise from his commanding officer. For it is an open secret that Major Dulin, constructing quartermaster, has implicit faith in Scharff and counts himself as lucky in having that young and swift-moving engineer assigned to Camp McClellan.

Mr. Scharff after the usual preliminary education in his own home town graduated at Phillips-Exeter and took his engineer's degree at the Massachusetts Institute of Technology in 1909, and wears one of those blue enameled shields which indicates that the man behind is a member of that association of builders, the Society of American Engineers.

Whatever credit may come to Camp McClellan as the star cantonment of the United States, Major Dulin shares it in liberal quantity with Scharff and others of his busy and snappy band of officers and superintendents and foremen, and to the zeal and patriotism of the workmen under them.

But it was Scharff who had to survey the whole 16,000 acres of mountains and valleys and to cover this difficult and unusual terrain with the lines and make the maps and drawings and tracings from which ultimately sprang the largest and best constructed cantonment in the United States today.

MANY TECHNOLOGY MEN ARE
OFFICERS IN REGULAR ARMY

Records in the office of Major Edwin T. Cole show that Technology has now more officers in the Regular Army than any other school except West Point. It has been well known that hundreds of former students of the Institute are representing all branches of the Reserve Corps, but the strong showing in the Regular Army is quite a surprise. The list as far as made out gives the following strength in the various branches: Engineer Corps, 16; Cavalry, 4; Field Artillery, 7; Coast Artillery, 83; Infantry, 7. Total, 117.

It is of interest to learn further from the records of The Tech and the War Service Auxiliary, through the Secretary of the latter, Mrs. A. J. George, that 1,538 Technology men are in khaki. Of these men, 226 are in foreign service, 163 are in Aviation and 194 are in the Navy; 1,335 of the whole number are either commissioned officers or in training camps, the latter meaning of course, not the cantonments. Sixteen have died, either from injuries or from natural causes.

All Walker Memorial Dining Rooms

Are Open to
All Tech Men
NOW

Open Daily and Sunday

Robert A. Boit & Co.

40 Kilby Street

Boston

**INSURANCE
OF
ALL KINDS**



STONE & WEBSTER

FINANCE public utility developments.

BUY AND SELL securities.

DESIGN steam power stations, hydro-electric developments, transmission lines, city and interurban railways, gas plants, industrial plants and buildings.

CONSTRUCT either from our own designs or from designs of other engineers or architects.

REPORT on public utility properties, proposed extensions or new projects.

MANAGE railway, light, power and gas companies.

NEW YORK BOSTON CHICAGO



Complete stock of
Drawing Materials

Manufacturers of

BLUE PRINT PAPER

SPAULDING-MOSS CO.
Drafting Room Furniture

Tell Us Your Requirements

Catalog on Request

A. H. Spaulding '14

MURAD

**THE TURKISH
CIGARETTE**

**PACKAGES
OF
TENS AND
TWENTIES**

Not by accident is Murad the greatest selling cigarette in America.

SOMETHING did it. What?

Goodness—that's all. Unchanging, unmistakable, inimitable, irresistible, Goodness.

For further particulars—

*Judge for yourself—
compare Murad with any
25 Cent Cigarette*

S. ANARGYROS

Makers of the Highest Grade Turkish and Egyptian Cigarettes in the World

REMEMBER—
Turkish tobacco is
the world's most
famous tobacco for
cigarettes.



Technology Men in War Service

The Tech wishes to print the names of Technology men in War Service, whether in a military or industrial capacity, together with the branch of such service with which they have allied themselves.

Notification of any corrections or changes in the information given in this column will be appreciated.

Address any information of this character to the Managing Editor, The Tech, Massachusetts Avenue, Cambridge, Mass.

Class of 1875

SAMUEL J. MIXTER, Govt. Service.
Class of 1887

G. L. NORRIS, Major, Aircraft Production Board.

Class of 1890

W. B. POLAND, Belgian Relief Work.

Class of 1892

A. P. MATHEWS, Capt., Q. M. C.

Class of 1896

WALTER J. MAYO, Major, 103rd U. S. Inf.

Class of 1898

GEO. B. PILLSBURY, Col., 115th Engrs.

CLASS OF 1899

HARRY L. MORSE, Major, 324th Heavy F. A.

ALBERT F. NATHAN, Major, Inf.

WM. E. PARKER, Lieut.-Comdr., N. R. F., Naval Observatory.

ALBERT PLIMPTON, Ensign, U. S. N. R. F., Mine Sweeping.

Class of 1900

GEORGE W. PIGMAN, Jr., Paymaster, U. S. N.

Class of 1901

CARROLL E. MILLER, JR., Ensign, Inst., U. S. N. Academy.

JAS F. MONAGHAN, Capt., Ord. Dept.

Class of 1902

LESLIE W. MILLAR, Constr. at Navy Yard, Boston.

Class of 1903

HERBERT C. MERRILL, San. Eng. Corps.

DAVID D. MOHLER, Capt., 102nd E. O. R. C.

Class of 1904

EDW. H. METCALF, 1st Mach. Mate, U. S. N. R.

FRED'K NICKERASON, 1st Lieut., Avia. Sec., U. S. Sig. Corps.

FRED'K A. O'LEARY, Lieut., 13th Res. B., Inf.

Class of 1906

LOUIS H. MAXFIELD, Lieut., Navy Dept.

DR. JAS. H. MEANS, 1st Lieut., Adj., Base Hspt. No. 6, Med. Res. Corps.

CHAS. A. MERRIAM, Capt., E. O. R. C.

EDW. B. POLLISTER, 2nd Lieut., E. O. R. C.

Class of 1907

NATHAN A. MIDDLETON, Capt., Eng. O. R. C.

Class of 1910

AUGUSTUS B. MERRY, Co. G., 302nd Inf., Engrs.

ALBERT J. MYER, Capt., with Pershing's Army.

WM. R. NICHOLS, Private, Depot Brigade.

ERNEST L. PATCH, Asst. Naval Constr., Portsmouth.

WM. M. PETTINGELL, Private, Bat. D., 103rd Artillery.

Class of 1911

LLOYD A. PATRICK, Sergt., Co. A., 102nd Mach. Gun Bat.

Class of 1912

EDW. C. MAYER, 1st Lieut., Q. M. C.

HENRY M. OTIS, 2nd Cl. Seaman, Navy Avia. Detach., N. R.

Class of 1913

WM. H. MURPHY, 2nd Lieut., 104th U. S. Inf.

DONALD J. NEUMULLER, Capt., Avia. Sec., Sig. Corps.

U. S. NEEDS TECHNICAL MEN FOR SERVICE DURING WAR

For further information concerning these positions, communicate with the nearest Secretary of the Civil Service Commission or the M. I. T. Committee for National Service, 908 Union Trust Building, Washington, D. C.

| Cir. No. | Position | Service | Salary | Date of Exam. |
|----------|--|-----------------|----------------------|---------------|
| 14 | Laboratorian, qualified Strength Materials | Navy Yard | \$3.52 per diem | Jan. 9 |
| 16 | Asst. Physicist | Bureau of Mines | \$1500-\$1800 | Jan. 9 |
| 28 | Heating & Ventilating Engr. and Draftsman | Treasury Dept. | \$1500 | Jan. 15 |
| 34 | Asst. Petroleum Chemist | Dept. Interior | \$1680-\$1920 | Jan. 15 |
| 790 | Sub-inspector Ordnance | Navy Yard | \$4.48-\$5.92 per d. | * |
| 2252 | Asst. Inspector Hull Material | Navy Yard | \$4.48-\$5.04 per d. | * |

* On account of the urgent needs of the service, applications will be received until further notice. Papers will be rated promptly and certification made as the needs of the service require.

A. A. DICKSON 1st Lieut. Reg. A., C. A. C.

A. P. DUHNAM, Ord.

H. P. EDDY, N. R.

P. FLAGG, Priv. 304th Engrs. Corps, N. A.

Class of 1914

ERIC W. MASON, 1st Lieut., British Exped. Forces. Died of wound, August 12th, 1917.

FRED D. MENDENHALL, Corp., 7th Reg., Eng. Corps.

EARL M. NEWLIN, 1st Lieut., 312th Mach. Gun Bat.

ROBT. PARSONS, Private, N. A.

RICHARD W. PEATROSS, JR., Capt., Ord. Corps, U. S. R.

PHILIP S. PLATT, Capt., San. C., in France.

Class of 1915

HAROLD H. MITCHELL, M. D., 1st Lieut., Med. O. R. C.

CHAS. L. MORSE, Cadet, Avia. Sec., Sig. Corps, O. R. C.

J. B. NEWTON, Capt., 301st Trench Mortar Bat., F. A.

WM. A. ORTH, Sergt., 315th, E. O. R. C.

STANLEY H. OSBORNE, 1st Lieut., Med. Sec., O. R. C.

SAMUEL S. OTIS, Ensign, Pub. Wks. Dept., U. S. N. R.

CLASS OF 1916

HAROLD A. MOXAN, Avia. Sec., Sig. Reserve Corps.

W. R. NICHOLS, Capt., C. A. C.

KNIGHT B. OWEN, 2nd Cl. Seaman, Navy Avia. Detach.

GEO. H. PETIT, Instrumental Sergt., Bat. E., 10th Artillery.

WM. B. LEACH, JR., 1st Lieut., Ord. Dept.

W. B. LITTLEFIELD, 2nd Lieut., Inf., France.

CHARLES W. LOOMIS, Sergt., Tr. Despatcher, Engrs. R. C., France.

T. S. McLAUGHLIN, 2nd Lieut., Const. Div., Avi. Sec., Sig. Corps.

NELSON MacRAE, 1st Lieut.

THOMAS H. MACE, Gunner, 3rd Div., Artillery.

LEWIS G. MACK, 2nd Lieut., E. O. R. C., 2nd E. O. T. C.

EDWARD W. MACY, Major, Inf., Comdg. Cadets.

CHARLES S. MAKEPEACE, Ensign, U. S. N.

ALEXANDER MARTIN, 307th Field Sig. Bat. Bat., Camp Gordon, Ga.

Class of 1917

E. C. MATTHEWS, Bat. F., 102nd F. A., Amer. Exped. Forces, France.

G. G. MILLER, 1st Lieut., Sig. Corps, M. I. T.

HAROLD C. NEUMANN, U. S. N. R.

EDWIN M. NEWTON, 2nd Lieut., C. A. C.

PAUL F. NICHOLAS, Private, N. A.

JAMES E. O'EIL, 2nd Lieut., E. O. R. C.

EDW. B. PAYNE, Sergt., Ord. Dept., Mach. Gun Instr.

LUTHER S. PHILLIPS, Coxswain, U. S. N.

CHAS. E. PLUMMER, Co. 17, Mass. Coast Artillery.

J. R. KELLY, 1st Lieut., Sound Rang. Sig. Corps.

F. S. KRUG, JR., 2n Lieut., C. A. C.

R. LOWENGARD, Govt. Service, at M. I. T.

I. B. McDANIEL, Asst. Nav. Constr., U. S. N.

R. J. McLAUGHLIN, 2nd Lieut., C. A. C., France.

W. I. MCNEILL, Industrial Service.

H. G. MANN, Industrial Service.

S. C. CUTLER, Priv. 310th Inf. N. A.

H. T. EVANS, Co. B, 301st Inf., N. A.

J. M. EVANS is in Avia. Sect. of Signal Corps.

C. FLANNIGAN, 1st Lieut. in Co. D, Sig. Corps, U. S. R.

A. C. FOOTE, Lieut. in the Eng. O. R. C.

O. R. FREEMAN, Priv. in Co. B, 316th Engrs., N. A.

W. M. BLACK,
Major General, Chief of Engineers.

Approved:

NEWTON D. BAKER,
Secretary of War.

President Maclaurin next read the new regulations governing enlistment by engineering students in the engineer branch of the enlisted reserve corps. The text of this document follows:

Each application must be accompanied by a certificate from the President or Dean, CARRYING THE SEAL OF THE INSTITUTION AND MADE UNDER OATH before a notary public or other civil officer authorized to administer oaths, in the following form:

(This form will be made out by the faculty if the applicant fills the requirements stated.)

In order to receive prompt consideration, applications from candidates now at college, and who are over 21 years of age, should be submitted so as to reach the office of the Chief of

DU PONT AMERICAN INDUSTRIES



Challenge Cleanable Collars

Challenge Cleanable Collars are better than merely "linen" collars. Because—instantly cleanable with a bit of soap and a damp cloth. They mean no more laundry bills.

Challenge Cleanable Collars have a stitched edge effect and real dull "linen" collar finish. Made in all popular and up-to-date styles. Half sizes, too.

Ask your dealer for Challenge Cleanable Collars. If he does not carry a stock, send 25c, stating your particular size and style.

A booklet showing several of the most popular styles gladly sent you on request.

The Arlington Works

Owned and Operated by

E. I. Du Pont de Nemours & Company

Du Pont

725 Broadway, New York

DU PONT AMERICAN INDUSTRIES

E. I. du Pont de Nemours & Co. Wilmington, Dela. Industrial, Agricultural, Sporting and Military Explosives

Du Pont Fabrikoid Co. Wilmington, Dela. Leather Substitutes

Du Pont